

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

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(PCT Article 36 and Rule 70)

30 DEC 2004

Applicant's or agent's file reference 51023 WO		FOR FURTHER ACTION See Form PCT/IPEA/416																									
International application No. PCT/IB 2002/002614		International filing date (day/month/year) 04-07-2002	Priority date (day/month/year) ---																								
International Patent Classification (IPC) or national classification and IPC G09B 5/06, H04Q 1/00 // H04Q 3/00																											
Applicant NOKIA CORPORATION ET AL																											
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>3</u> sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <table border="0"><tr><td><input checked="" type="checkbox"/></td><td>Box No. I</td><td>Basis of the report</td></tr><tr><td><input type="checkbox"/></td><td>Box No. II</td><td>Priority</td></tr><tr><td><input type="checkbox"/></td><td>Box No. III</td><td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td></tr><tr><td><input type="checkbox"/></td><td>Box No. IV</td><td>Lack of unity of invention</td></tr><tr><td><input checked="" type="checkbox"/></td><td>Box No. V</td><td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VI</td><td>Certain documents cited</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VII</td><td>Certain defects in the international application</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VIII</td><td>Certain observations on the international application</td></tr></table>				<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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Date of submission of the demand 05-01-2004		Date of completion of this report 30-09-2004																									
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2002/002614

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

☐ international search (under Rules 12.3 and 23.1(b))

☐ publication of the international application (under Rule 12.4)

☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 14 _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☒ the claims:

pages _____ as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* 10 - 12 _____ received by this Authority on 12-07-2004

pages* _____ received by this Authority on _____

☒ the drawings:

pages 1 - 3 _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2002/002614

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-27</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-27</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-27</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US2002081560 A1
D2: US5991594 A
D3: WO9837555 A1
D4: EP1172739 A2
D5: WO0111588 A2

The documents cited in the International Search Report represent the prior art. The claimed invention stated in claims 1-27 is not considered to be anticipated by these documents. None of the documents or any relevant combination of them reveals a mass storage comprising multiple tracks of information where the tracks comprise different kinds of data as described in these claims.

According to the arguments stated above, the invention claimed in claims 1-27 is novel, considered to involve an inventive step and have industrial applicability.

International Application No. PCT/IB02/02614
Applicant: Nokia Corporation
Date: July 12, 2004

New Claims

1. Mass storage comprising multiple tracks of information, wherein said tracks have different kinds of data contents, wherein a reproduction of a subset of said tracks is provided for basic perception, characterized in that at least two of said tracks comprise synchronisation markers, to enable a seamless change between said tracks during reproduction.
2. Mass storage according to claim 1, wherein said synchronisation markers are to enable a time synchronisation of said different tracks during reproduction.
3. Mass storage according to claim 1 or 2, wherein said synchronisation markers are to enable a logical synchronisation of data within the tracks.
4. Mass storage according to claim 1, 2 or 3, wherein said synchronisation markers comprise an information about the storage location of other tracks.
5. Mass storage according to anyone of the preceding claims, characterized in that at least one of said tracks has a different length than the other one.
6. Mass storage according to anyone of the preceding claims, wherein at least one of said tracks comprises at least one hyperlink.
7. Mass storage according to anyone of the preceding claims, characterized by data to relate the reproduction of said tracks to predetermined rules.
8. Electronic reproduction device, comprising a multi-track reproducer, for reproducing stored multi-track reproduction data wherein said tracks have different kinds of data content, characterized by a component to adapt the reproduction of a subset of said tracks to predetermined conditions, said adaptation component being connected to said reproducer, and being adapted to operate a seamless change of the reproduction between two tracks having synchronisation markers.

9. Electronic reproduction device according to claim 8, characterized in that said adaptation component is configured to automatically change the tracks during reproduction.
10. Electronic reproduction device according to claim 8 or 9, characterized in that said adaptation component is configured to automatically change the reproduction of said tracks during reproduction.
11. Electronic reproduction device according to anyone of claims 8 to 10, characterized by at least one sensor connected to said adaptation component for detecting environmental conditions
12. Electronic reproduction device according to anyone of claims 8 to 11, wherein one of said sensors is an illumination sensor.
13. Electronic reproduction device according to anyone of claims 8 to 12, wherein one of said sensors is an acceleration sensor.
14. Electronic reproduction device according to anyone of claims 8 to 13, wherein one of said sensors is an acoustical sensor.
15. Electronic reproduction device according to anyone of claims 8 to 14, wherein one of said sensors is a location sensor.
16. Electronic reproduction device according to anyone of claims 8 to 15, wherein one of said sensors is an optical sensor.
17. Electronic reproduction device according to anyone of claims 8 to 16, wherein one of said sensors is an electrical sensor.
18. Electronic reproduction device according to anyone of the claims, 8 to 17, characterized by an interface to connect to said reproducer.
19. Electronic reproduction device according to anyone of the claims 8 to 18, characterized by a built-in mass storage connected to said reproducer.
20. Electronic reproduction device according to anyone of the claims 8 to 19, characterized by a built in communication device.

21. Electronic reproduction device according to claim 20, wherein said communication device comprises a mobile telephone.
22. Method for reproducing stored multi-track reproduction data in accordance with predetermined conditions, wherein said tracks comprise different kinds of data content, comprising:
identifying said predetermined conditions, and
automatically adapting the reproduction of a subset of said tracks to said predetermined conditions.
23. Method according to claim 22, further comprising relating said predetermined conditions to rules concerning the reproduction of said multi-track reproduction data.
24. Method according to claim 22 or 23, further comprising detecting environmental conditions, and wherein said adapting to predetermined conditions include the adapting to environmental conditions.
25. Software tool comprising program code means for carrying out the steps of anyone of claims 22 to 24 when said program is run on a network device or a mobile terminal device.
26. Computer program comprising program code means for carrying out the method of anyone of claims 22 to 24 when said program is run on a computer or network device.
27. Computer program product comprising program code means stored on a computer readable medium for carrying out the method of anyone of claims 22 to 24 when said program is run on a network device or a mobile terminal device.